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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,979	02/27/2004	Wolfgang Aderhold	008304	6862
60300	7590 05/16/2007 S OF CHARLES GUENZE	EXAMINER		
ATTN: APPLI	ED MATERIALS, INC.	PAIK, SANG YEOP		
2211 PARK BOULEVARD P.O. BOX 60729 PALO ALTO, CA 94306			ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			05/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/788,979	ADERHOLD ET AL.			
		Examiner	Art Unit			
		Sang Y. Paik	3742			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 15 Ma	arch 2007.				
2a)⊠	This action is FINAL . 2b) This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-9,12-16,19 and 30-32</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.					
•	Claim(s) <u>1-9,12-16,19 and 30-32</u> is/are rejected	d.				
•	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.	·			
Applicati	on Papers	·				
7—	The specification is objected to by the Examine					
, —	The drawing(s) filed on is/are: a)☐ acce					
	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🔲 .	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
Attachmen 1) Notic 2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	of the certified copies not receive 4)	(PTO-413) ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9, 12-15, 17-19 and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ballance et al (6,090,21) or Anderson et al (US 6,113,703) in view of Moslehi (US 4,891,499) or Moslehi (US 4,956,538).

Ballance or Anderson shows the method and apparatus claimed including a radiant source, means for holding a wafer substrate with an edge which extends to the substrate, a reflector, and a pyrometer for measuring the temperature of the wafer substrate. Anderson further shows a sloped annular shelf (16). But neither Ballance nor Anderson shows having a wafer substrate facing downwardly.

Moslehi '499 or Moslehi '538 shows that it is well known in the art to provide a wafer positioned with a face down for processing the wafer including heating and monitoring the temperature of the wafer. In view of Moslehi '499 or '538, it would have been obvious to one of ordinary skill in the art to adapt Ballance or Anderson with the wafer faced down to alternatively process the wafer as desired by the user and as such wafer is faced down the pyrometer of Ballance and Anderson would pyrometrically measure the front side of the wafer.

With respect to the recited edge exclusion zone, it would have been obvious to one of ordinary skill in the art to provide the holding means with the recited extension to sufficiently

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support the wafer without overlapping or limiting the availability of a working surface of the front side of the wafer.

3. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ballance or Anderson in view of Moslehi '499 or Moslehi '538 as applied to claims 1-9, 12-15, 17-19 and 30-32 above, and further in view of McNeilly et al (US 4,047,496) or Samoilov et al (US 6,455,814).

Ballance or Anderson in view of Moslehi '499 or Moslehi '538 shows the apparatus claimed except for providing the radiant heat source disposed below the reflector.

McNeilly or Samoilov shows that it is well known in the art to provide a radiant heat source below the reflector to process a wafer therebetween. In view of McNeilly or Samoilov, it would have been obvious to one of ordinary skill in the art to process the wafer with a radiant heat source below the reflector with a wafer positioned therebetween as an alternative arrangement to process the wafer.

Response to Arguments

4. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

With respect to Ballance, the applicant argues it does not disclose front side pyrometric monitoring, but Ballance, as modified by the Moslehi references, the front side of the substrate facing downwardly would be pyrometrically monitored.

The newly recited annular shelf with a slope is met by the newly applied Anderson reference.

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5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y. Paik whose telephone number is 571-272-4783. The examiner can normally be reached on M-F (6:30-3:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S.R.

Sang Y Paik Primary Examiner Art Unit 3742

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